



Procter & Gamble  
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## MATERIAL SAFETY DATA SHEET

MSDS #: FH/A/2003/KPKA-5SBMNR

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### SECTION I - PRODUCT IDENTIFICATION

Identity: Automatic Dishwashing Detergent

Brands: CASCADE 2IN1 ACTIONPACS

Hazard Rating: 1

Health: 1

4= EXTREME

Flammability: 0

3= HIGH

Reactivity: 0

2= MODERATE

1= SLIGHT

Emergency Telephone Number: 1-800-844-2544 or call Local Poison Control Center

### SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Complex sodium phosphates and sodium carbonate, oxygen bleaching system, enzymes, nonionic wetting agents, sodium silicate, binding agents, dyes, perfume., water soluble film.

Under normal consumer use, this product would not constitute a hazardous product under OSHA Hazard Communication. With increased industrial exposure this mixture, when tested as a whole, is considered an inhalation hazard within the meaning of the OSHA Hazard Communication Standard

**Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200., and/or WHMIS under the HPA:**

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>	<u>LD50 and/or LC50</u>
Carbonic Acid, Disodium Salt	Sodium Carbonate (Soda ash)	497-19-8	N/K	15-40%	1.9 g/kg (rats, oral)
Carbonic Acid Disodium Salt, Compound w/ Hydrogen Peroxide	Sodium Percarbonate	15630-89-4	N/K	5-15%	~1 g/kg
Silicic acid, sodium salt	Sodium Silicate	1344-09-8	N/K	3-7%	~1.8 g/kg (rats, oral)

**SECTION III - HAZARDS IDENTIFICATION****Health Hazards (Acute and Chronic):**

- Ingestion: Harmful if swallowed.
- Eye Contact: May cause moderate, transient irritation, including redness.
- Skin: May cause moderate, transient irritation, including dryness.
- Inhalation: If pouches are broken, inhaled powder can cause mild respiratory irritation

**Signs and Symptoms of Exposure:**

- Ingestion: Ingestion may result in lodging causing moderate to severe upper gastrointestinal irritation, burning, discomfort or corrosion of tissue which may impede a person's ability to speak or swallow.
- Eye Contact: Contact may cause moderate, transient irritation, including redness.
- Skin: Contact may cause moderate, transient irritation, including dryness.
- Inhalation: None expected. If pouches broken, repeated and prolonged exposure to the powder may cause mild respiratory irritation. Inhalation of high levels of enzyme containing dust, as could occur under some manufacturing conditions may result in respiratory sensitization. Once sensitized, subsequent exposure may result in respiratory reactions in some individuals (hayfever like symptoms and/or asthma). Respiratory sensitization under normal recommended use conditions would not occur.

**SECTION IV - FIRST AID INFORMATION****Emergency and First Aid Procedures:**

- Ingestion: If swallowed, do NOT induce vomiting. Give a glassful of milk or water and call a poison control centre or physician immediately.
- Eye Contact: Flush eyes with water for 15 minutes.
- Skin: Rinse exposed area with water.
- Inhalation: Leave dusty area.

Other: Consumer product packages have a caution statement: "CAUTION: IRRITANT. HARMFUL IF SWALLOWED OR PUT IN MOUTH. MAY IRRITATE EYES OR SKIN, KEEP OUT OF REACH OF CHILDREN. CAUTION: Do not get in eyes. Do not get on skin or clothing. KEEP OUT OF REACH OF CHILDREN. Do not let children touch product in dishwasher. After placing pouch in dispenser cup, close immediately. Do not puncture pouch. FIRST AID TREATMENT: Contains sodium carbonate, sodium silicate and enzymes. If swallowed, give a glassful of water or milk and call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water.

**SECTION V - FIRE FIGHTING INFORMATION**

- Flash Point: N/A Explosive Limits: LEL: N/A
- Method Used: N/A UEL: N/A
- Extinguishing Media: CO<sub>2</sub>, water, or dry chemical may be used.
- Special Fire Fighting Procedures: None.
- Unusual Fire Hazards: None known.
- Stability: Unstable: ☐ Conditions to Avoid: None known.
- Stable: ☒
- Incompatibility (Materials to Avoid): None known.
- Hazardous Decomposition/By Products: None known.

Hazardous Polymerization: May Occur: ☐ Conditions to Avoid: None known.  
Will Not Occur: ☒

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** If pouches are broken and powder is released (e.g., transportation incident), recommendation is to wear gloves and a dust mask for handling/cleanup.

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Household solutions may be disposed of in sewer. Dry product may be landfilled if acceptable to local landfill.

**Steps To Be Taken in Case Material is Released or Spilled:** Minimize dust levels while collecting product (see "inhalation" health effects). Dispose of according to local regulations.

**SECTION VII - HANDLING AND STORAGE**

**Precautions To Be Taken in Handling and Storing:** Store in a cool, dry, ventilated area . Keep product dry.

**Other Precautions:** None.

**SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**This section only applies to the product when used in an industrial setting.**

**Respiratory Protection (Specify Type):** None required with normal use.

**Ventilation:** Local Exhaust: None.

Special: None.

Mechanical (General): General dilution ventilation is acceptable.

Other: None.

**Eye Protection:** If a splash is likely, use chemical goggles for protection.

**Protective Gloves:** Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

**Other Protective Equipment:** None required with normal use.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point (°F):** N/A

**Specific Gravity (H<sub>2</sub>O=1):** ~1.65

**Vapor Pressure (mm Hg):** N/A

**Percent Volatile by Volume (%):** N/A

**Vapor Density (Air=1):** N/A

**Evaporation Rate (nBuOAc=1):** N/A

**Odor Threshold:** N/A

**Freezing Point:** N/A

**Coefficient of Water/Oil Distribution:** N/A

**pH (1% solution):** 10.8

**Viscosity:** N/A

**Reserve Alkalinity:** 13.5 at pH 9.5

**Scooped Density:** N/A

**Solubility in Water:** Nearly 100% at 20°C

**Appearance and Odor:** Clear pouch with a blue liquid top and granular bottom with speckles. Product is perfumed.

**Physical State:** Solid at 20°C

**SECTION X - STABILITY AND REACTIVITY**

**Possible Hazardous Reactions/Conditions:** None known.

**Conditions to Avoid:** None known.

**Materials to Avoid:** None known.

**Hazardous Decomposition Products:** None known.

**Other Recommendations:** None.

**SECTION XI - TOXICOLOGICAL INFORMATION**

Information on individual components indicates that the dry material may cause slight respiratory irritation if inhaled, and, from prolonged contact, may cause moderate eye and skin irritation.

**SECTION XII - ECOLOGICAL INFORMATION**

Should not be disposed of directly into the environment.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Dry product may be landfilled if acceptable to local landfill.

**SECTION XIV - TRANSPORT INFORMATION**

The packaged, finished product is non hazardous under DOT.

**SECTION XV - ADDITIONAL REGULATORY INFORMATION**

No components subject to California Prop. 65 All components are listed on US TSCA Inventory.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Controlled Products Regulation (CPR) and this MSDS contains all information required by the Hazardous Products Act.

**SECTION XVI - OTHER INFORMATION**

**\*\*N/A. - Not Applicable**

**\*\*N/K. - Not Known**

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.